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JAPANESE PATENT OFFICE

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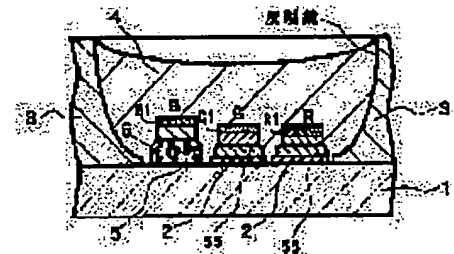
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(54) LED DISPLAY

(57)Abstract:

PURPOSE: To improve the external quantum efficiency of a blue LED chip, in the realization of a full-color LED display using the blue LED chips each of which comprises gallium nitride based compound semiconductors.

CONSTITUTION: On a printed circuit board 1 on whose surface a conductor layer 2 is formed, at least, blue, green and red LED chips B, G, R are mounted, and the whole of the three LED chips is molded, and thereby, one picture element of an LED display is formed. The blue LED chip comprises a gallium nitride based compound semiconductor LED chip wherein on a sapphire substrate gallium nitride based compound semiconductors are laminated. Further, the sapphire substrate of the gallium nitride based compound semiconductor chip is bonded to the printed circuit board 1 via a transparent or white insulation bonding agent 5.



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